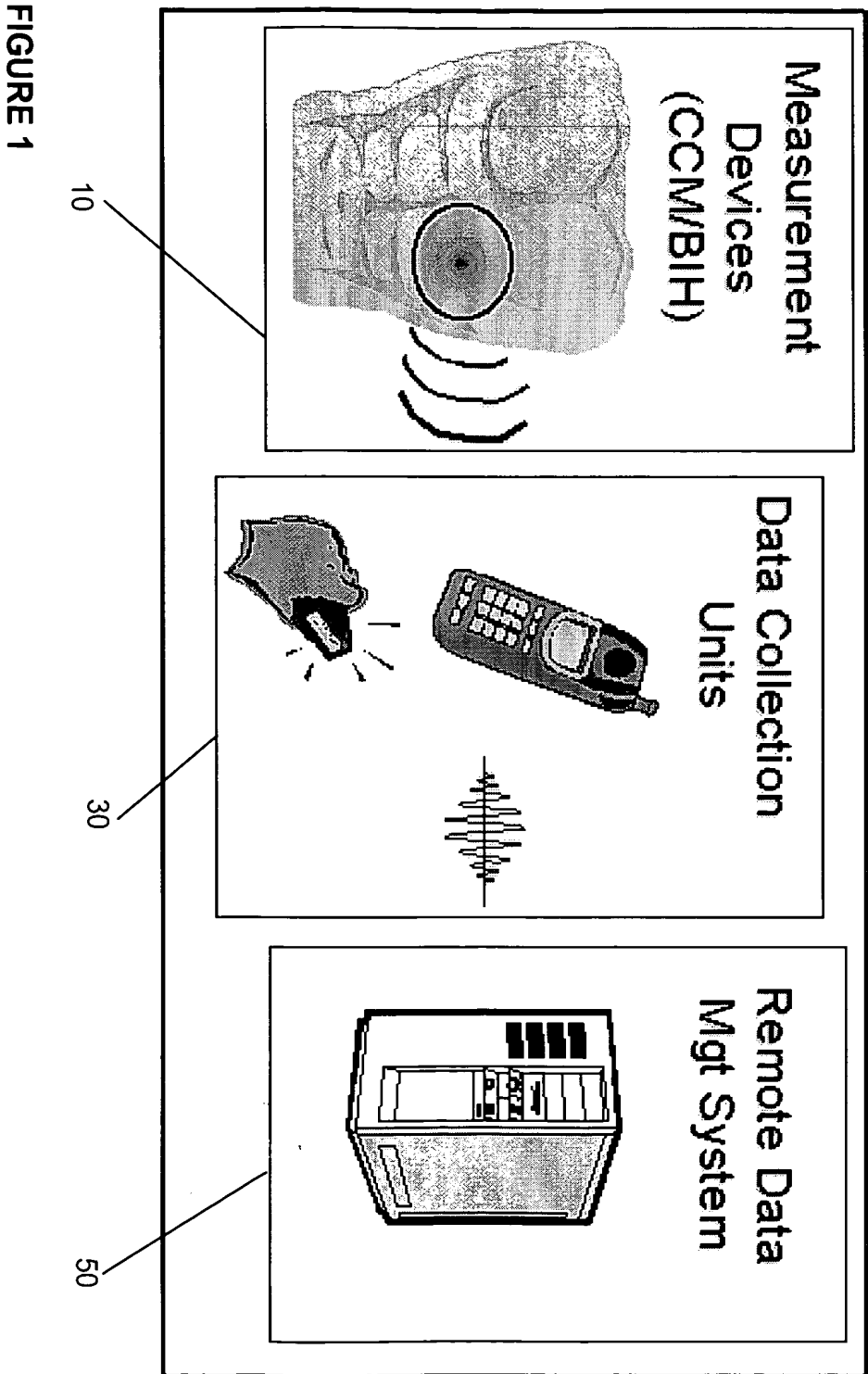
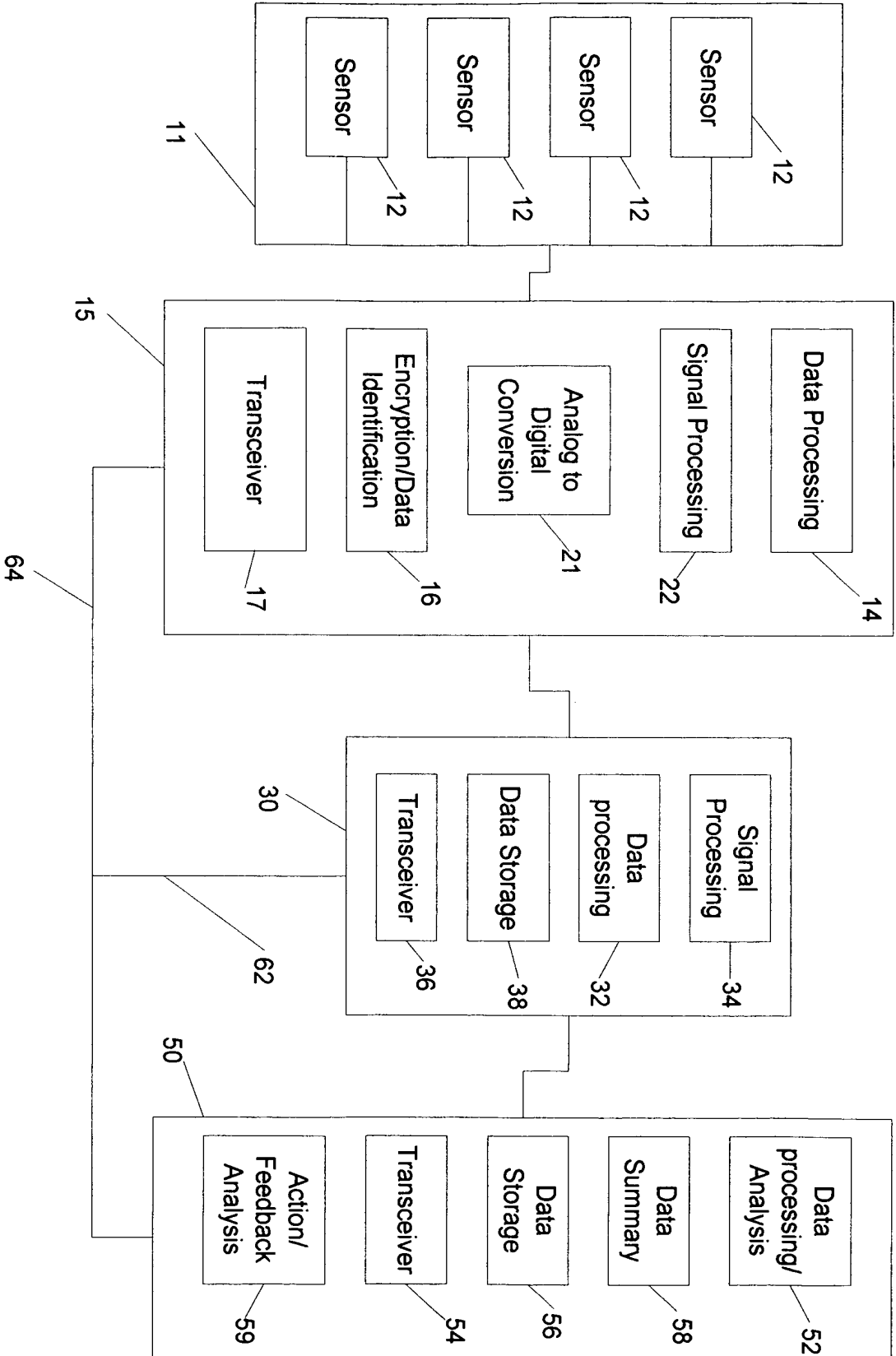


FIG. 1



1066201-5942001

FIGURE 2



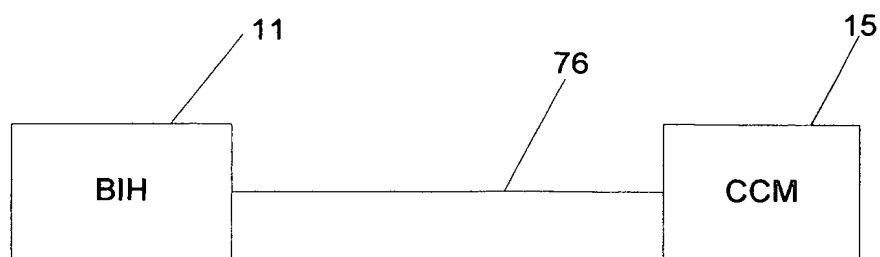


FIGURE 3

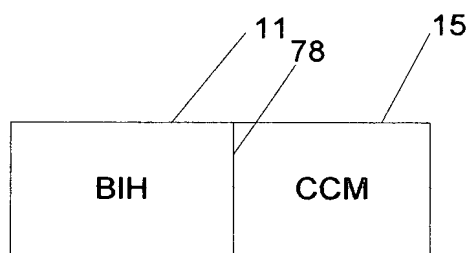


FIGURE 4

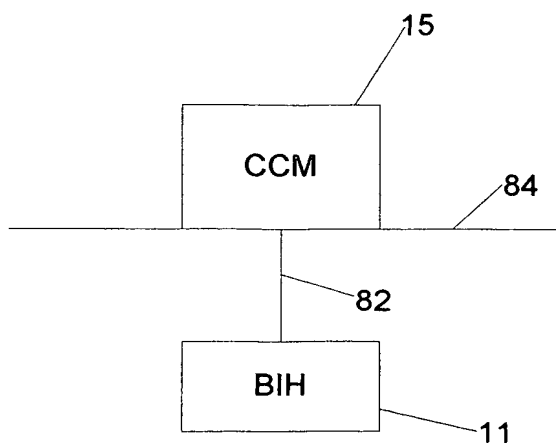


FIGURE 5

10032765-102901

FIGURE 6A

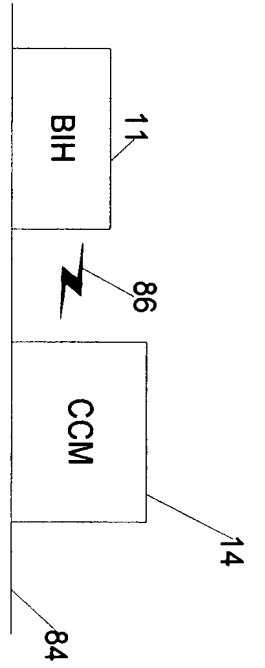


FIGURE 6A

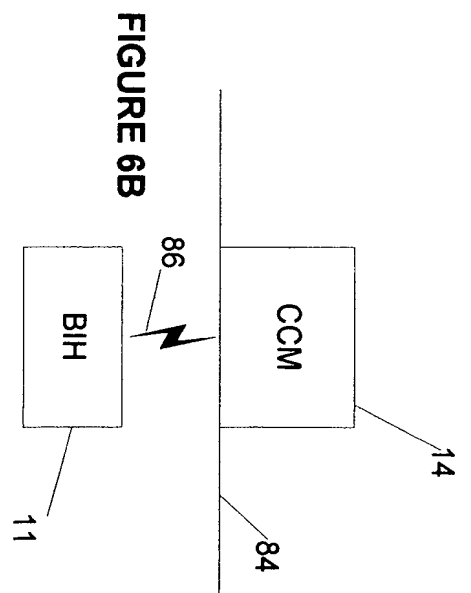


FIGURE 6B

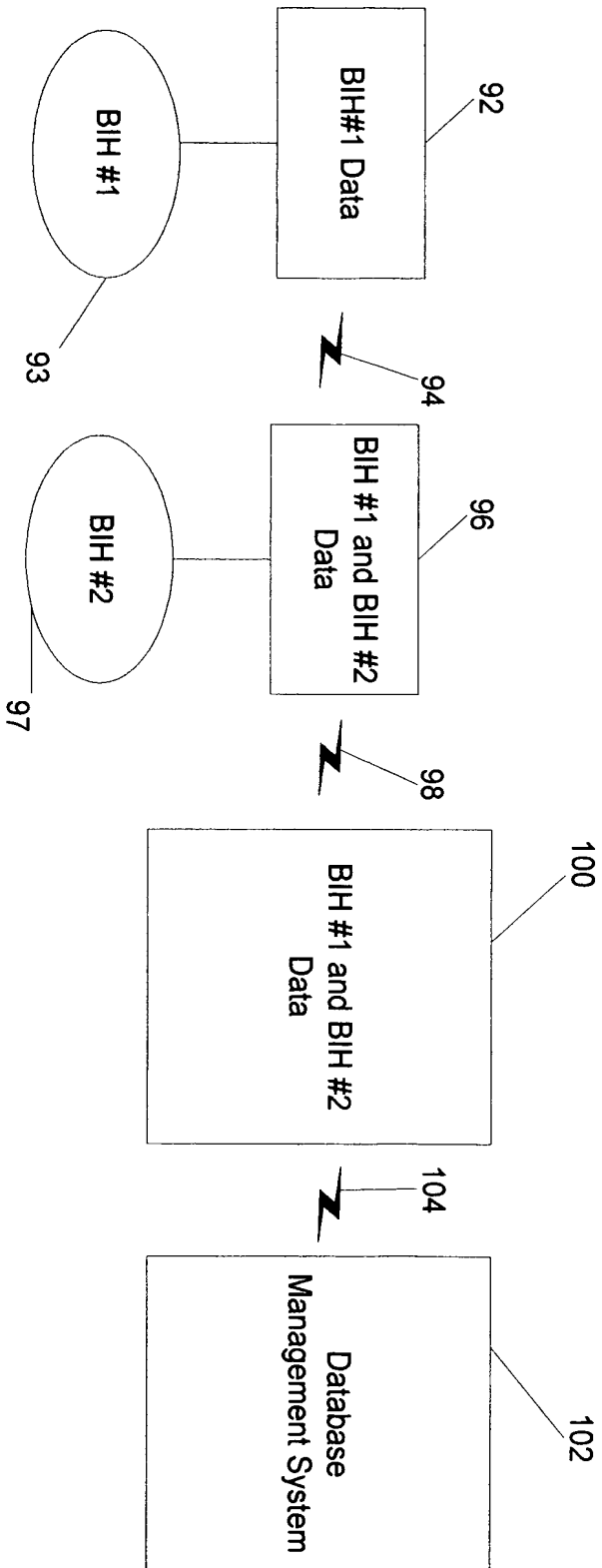


FIGURE 7

FIG. 8

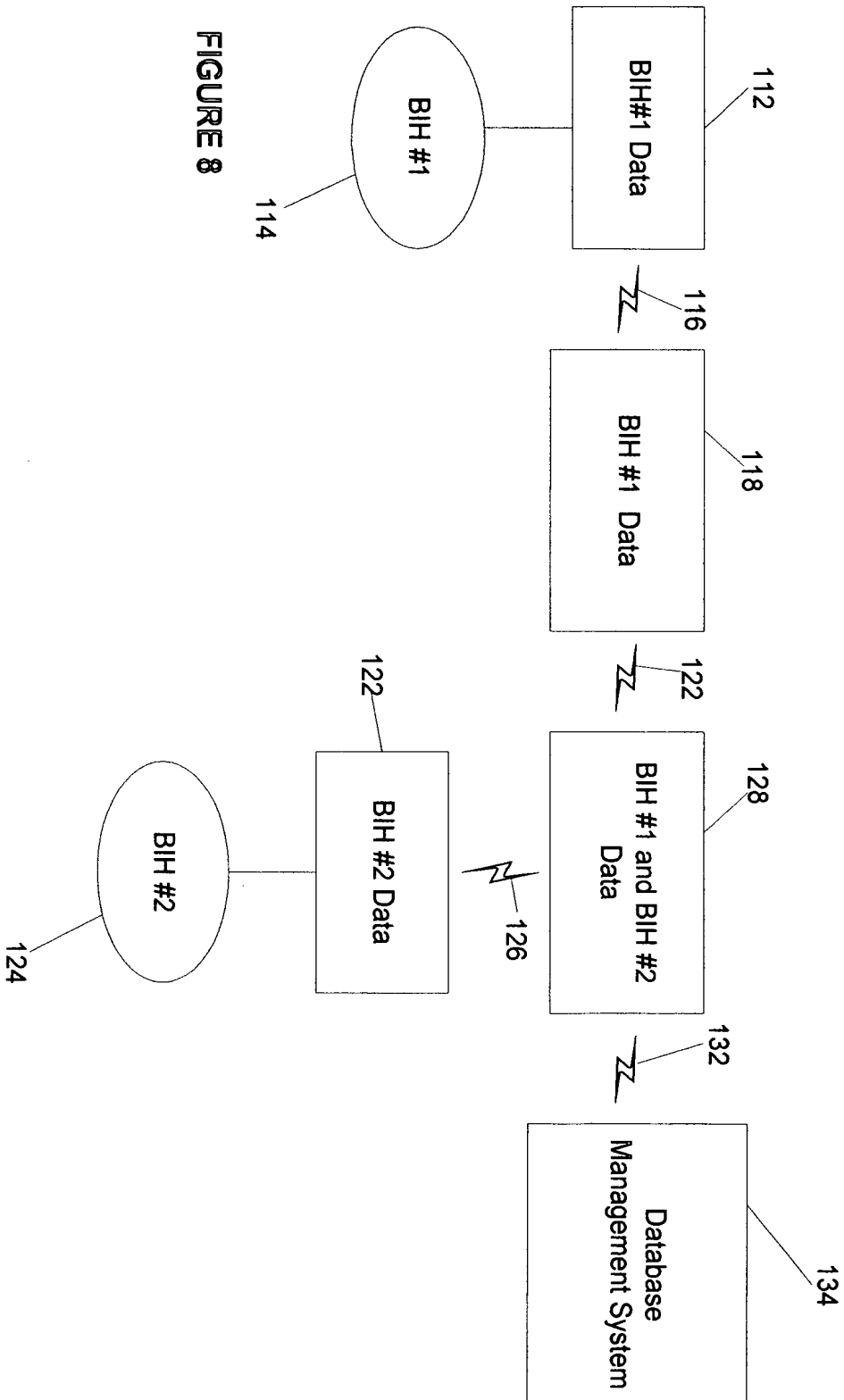
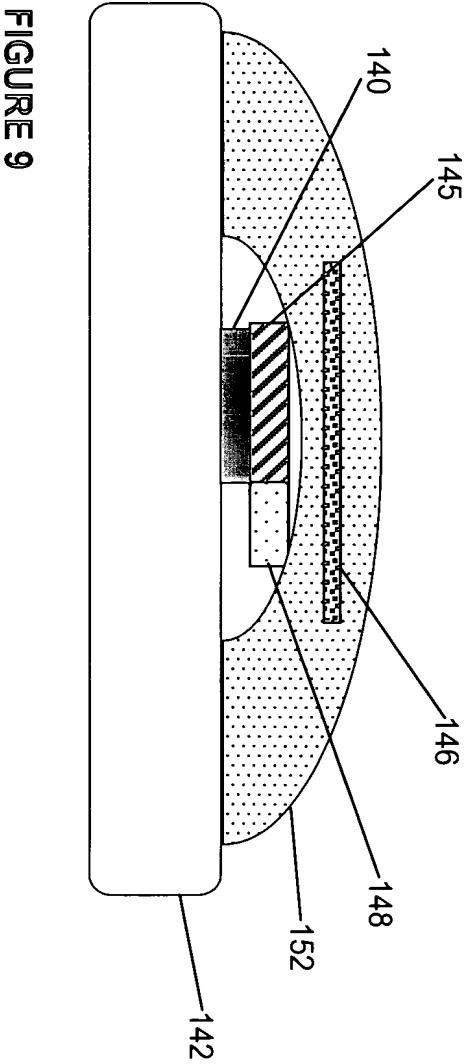
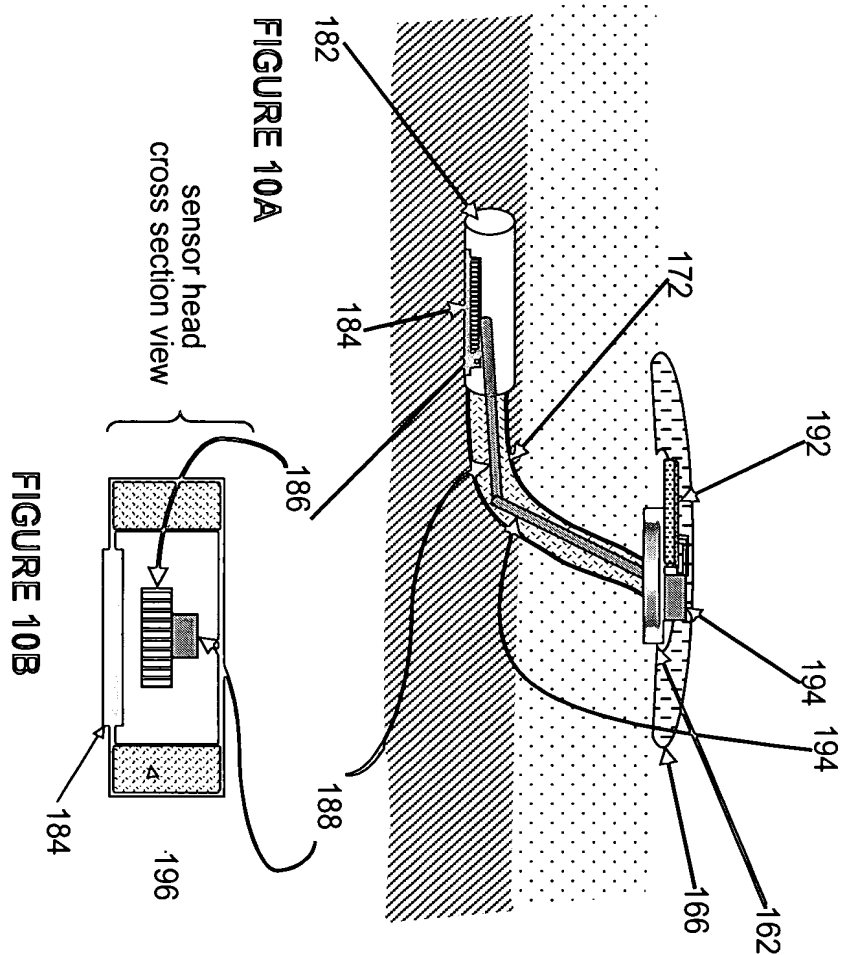


FIG. 9





Sheet 8 of 9

**Bio Interface Head**

- Interact with Body in order to derive a technically measurable signal
- Generate electrical signal
- Condition the electrical signal
- Filter
- Encode

FIGURE 11

**Control & Communication Module**

- Dynamic Signal Pre-Processing:
  - A/D conversion
  - Signal Conditioning (Noise reduction, Amplification, Averaging...)
  - Error Diagnosis
  - Error correction
  - ID management
  - Sensor Type
  - Serial Number
- Communication to DCU
- Transmit and Receive Data
- Encryption
- Transmission Protocol
- Time Reference
- Power Supply, also for BIH
- Power Control
- Feedback device

FIGURE 12

**Data Collection Unit**

- Communication to CCM
- Data processing
- Input device, Display and Actuators as user interface
- Network interface
- Power Supply

FIGURE 13

10032765-102901



FIG. 9

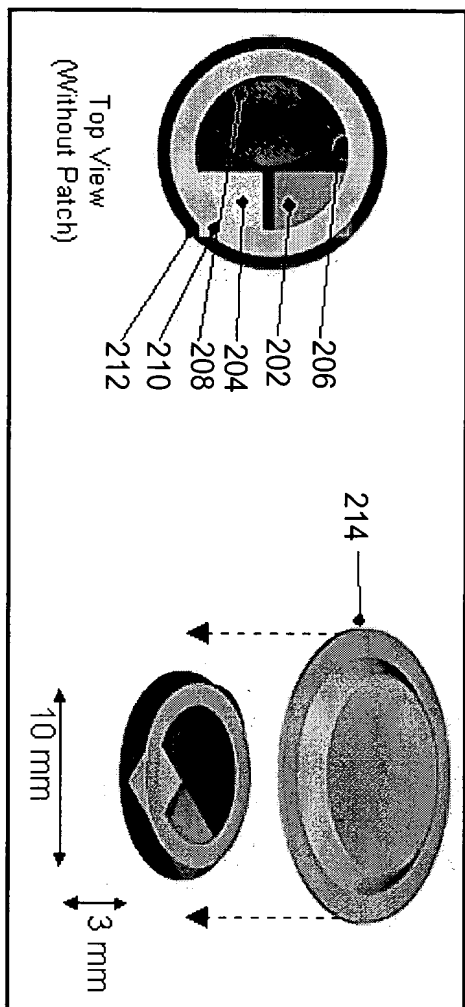


FIGURE 14